

Notice of Allowability

Application No.

10/826,282

Applicant(s)

LEE ET AL.

Examiner

Abbas I. Abdulsalam

Art Unit

2629

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 4/19/04.
2. ☒ The allowed claim(s) is/are 1-32.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application

6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____

7. ☐ Examiner's Amendment/Comment

8. ☒ Examiner's Statement of Reasons for Allowance

9. ☐ Other _____


RICHARD HJERPESUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600

DETAILED ACTION

Allowable Subject Matter

1. Claims 1-32 are allowed.

Reasons for Allowance

2. The following is an examiner's statement of reasons for allowance:

Lee et al. (USPN 6982690) teach as shown in Fig. 6, pixels in the m .sup.th row, the first pixel $P1(m,n)$, second pixel $P2(m,n)$, and third pixel $P3(m,n)$ shown in FIG. 6 as these three adjacent pixels are coupled to the same scan line S .sub. m and the same data line D .sub. n . reducing the number of data lines.

Regarding claim 1, Lee et al do not teach a liquid crystal display comprising: drivers, and a plurality of first switching parts and a plurality of second switching parts located in an i .sup.th horizontal line for supplying video signals to associated liquid crystal cells by the control of an i .sup.th gate line; a plurality of third switching parts located in the i .sup.th horizontal line for applying video signals to associated liquid crystal cells by the control of the i .sup.th gate line and an $i-1$.sup.th gate line; and a plurality of fourth switching parts located in the i .sup.th horizontal line for applying video signals to associated liquid crystal cells by the control of the i .sup.th gate line and the $i-1$.sup.th gate line.

Regarding claim 22, Lee et al. do not teach a method of operating a liquid crystal display comprising: supplying signals through data lines and gate lines, controlling a plurality of first switching parts and a plurality of second switching parts located in an i .sup.th horizontal line

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using an i-1.sup.th gate line, so that the plurality of first switching parts and the plurality of second switching parts supply video signals from data lines to associated liquid crystal cells; controlling a plurality of third switching parts located in the i.sup.th horizontal line using the i.sup.th gate line and an i-1.sup.th gate line, so that the plurality of third switching parts supply video signals from data lines to associated liquid crystal cells; and controlling a plurality of fourth switching parts located in the i.sup.th horizontal line using the i.sup.th gate line and the i-1.sup.th gate line, so that the plurality of fourth switching parts supply video signals from data lines to associated liquid crystal cells.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Abbas I. Abdulsalam whose telephone number is 571-272-7685.. The examiner can normally be reached on Monday through Friday from 9:00 A.M. to 5:30 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hjerpe, can be reached on 571-272-7691. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications

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may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Abbas I Abdulsalam
Examiner
Art Unit 2629
June 5, 2007

A handwritten signature in black ink, appearing to read 'R. Hjerpe', is positioned above the printed name.

RICHARD HJERPE
SUPERVISORY PATENT EXAMINER
TECHNICAL CENTER 2600